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Specialization: Mulberry Breeding, Plant physiology and tissue culture.

Ph. D. Thesis Title: "Studies on morpho-anatomical, physio biochemical and leaf yield components for identification of delayed senescent high yielding mulberry genotypes to increase leaf yield during commercial crop seasons".

Publications: Total: 56

Top Ten Publications:

1. **Doss, S.G.**, K.Vijayan, S. P. Chakraborti and B.N. Roy (1998) Studies on flowering time and its relation with geographic origin in mulberry. *Indian Journal of Forestry [non-impact factor (IF)]*. **24(2):203-205.**
2. **Doss, S.G.**, Vijayan, K., Rahman, M. S, S. P. Chakraborti and B. N. Roy (2000). Effect of plant density on growth, yield and leaf quality in triploid mulberry. *Sericologia (CSI,France; non-IF)*, **40(1):175-180.**
3. **Doss, S. G.**, M. S. Rahman, S. Debnath, M. K. Ghosh, H. Sau, P. L. Ghosh and A. Sarkar (2006). Variability, heritability and genetic advance in nine germplasm lines of mulberry (*Morus* spp.). *Indian Journal of Genetics and Plant Breeding (ISGPB, Non-IF)* **66(2):169-170.**
4. **Doss, S.G.**, Sengupta, T., K. Vijayan, Das, C., S. P. Chakraborti, B.N. Roy and Raje Urs, S. (2007). Evaluation of mulberry genotypes through physiobiochemical parameters and leaf yield under irrigated conditions of West Bengal. *Bulletin of Indian Academy of Sericulture (IAS, Non-IF)* **11(1):62-68.**
5. Vijayan, K., **Doss, S. G.**, Chakraborti, S. P. and Ghosh, P. D. (2009). Breeding for salinity resistance in mulberry (*Morus* spp.). *Euphytica (Springer; IF: 1.6)*, 169:403-411.
6. Chattopadhyay, S. Ali, K. A., **Doss, S. G.**, Das, N. K., Aggarwal, R. K., Bandopadhyay, T. K., Sarkar, A. and Bajpai, A. K. (2010). Evaluation of mulberry germplasm for resistance to powdery mildew in the field and greenhouse. *Journal of General Plant Pathology (Springer; IF 0.70)*, **76:87-93.**
7. Chattopadhyay, S. Ali, K. A., **Doss, S. G.**, Das, N. K., Aggarwal, R. K., Bandopadhyay, T. K., Sarkar, A. and Bajpai, A. K. (2011). Association of leaf micromorphological characters with powdery mildew resistance in field grown mulberry (*Morus* spp.) germplasm. *AoB Plants. DOI: 10.1093/aobpla/plr002, Open Access.*
8. **Doss, S. G.**, Chakraborti, S. P., S. Roychowdhuri, N. K. Das, K. Vijayan and P. D. Ghosh (2011). Development of mulberry varieties for sustainable growth and leaf yield in temperate and subtropical regions of India. *Euphytica (Springer; IF 1.6), DOI: 10.1007/s10681-011-0523-x.*
9. S Chattopadhyay, **SG Doss**, S Halder, A K Ali and AK Bajpai (2011) Comparative micropropagation efficiency of diploid and triploid mulberry (*Morus alba* cv. S1) from axillary bud explants. *African Journal of Biotechnology (Academic Journals; IF 0.60)*, **10: 18153-18159.**
10. Rita Banerjee, N K. Das, **S. G. Doss** A. K. Saha, A. K. Bajpai & B B Bindroo (2011) Narrow sense heritability estimates of bacterial leaf spot resistance in pseudo F2 (F1) population of mulberry (*Morus* spp.) *European Journal of Plant Pathology (Springer; Impact factor (IF 1.6) [in press]*

Member of Scientific organizations:

1. Life member of National Academy of Sericultural Sciences India, Bangalore. India.
2. Indian Society of Genetics and Plant Breeding, IARI, New Delhi. India.
3. Life member of Indian Society of Plant Breeders, TNAU, Coimbatore. TN. India.

Reviewer of the following Journals:

1. Annual Review & Research in Biology, NY.
2. African Journal of Biotechnology.